

## INTRODUCTION

In the 1970s when Roll Over Bars (ROBs or Roll Over Protection [ROP] as they are commonly called now) became the thing to have in competition, John Aley started manufacturing roll over bars for the sports cars of the day, which of course included the TRs TR2-6. Later John Aley sold out to Safety Devices, who continued to manufacture these bars into the millennium. A few years ago safety devices got into difficulties which seriously interfered with roll over bar supplies. As a consequence Revington TR took steps to re-tool this range, rationalising and improving the designs, and introducing a full range for TR7 and 8. Our ROBs are now made by Caged Laser Engineering in England exclusively for Revington TR, off our own tooling.

We aim to carry stocks of the common part numbers in the range of ROBs and cages for TR2-8 in the variations described below for both road and competition use; less common part numbers are manufactured to order. To make it easier for you to decide which bar or cage is suitable for you, Revington TR have compiled this information sheet, which explains what features are available for your car and what those features are.

## BASE BAR TYPES

### ROAD BARS

Revington TR road bars are designed for the casual road user who wishes to increase the safety of their TR but doesn't necessarily wish to use their vehicle for competition. To make the bar less of an obstruction, more convenient and to reduce the cost of the bar, road bars do not have a diagonal brace but do have 2 angled back stays. The bars are still made out of the same high quality steel as the competition bars and therefore give you that extra piece of mind in case of that unfortunate occurrence of an accident.

### COMPETITION BARS

Revington TR competition bars are designed for those who desire the extra rigidity of a diagonal brace for competition or track day use. Customers who also use their car for general road use may be interested in our removable diagonal range. For general road use the diagonal bar can be left out and when taking the car to the track the extra safety of the diagonal brace can be re-fitted with just 2 bolts.

### FULL CAGES

Revington TR offers a complete full cage safety solution for all TRs, for those who are building a competition TR. These cages comply with FIA rules and as the material used and the design conform with the FIA (and the MSA in the UK) no certification is required. These cages comprise front and rear hoops, removable door and roof bars, harness bar and diagonal, and in some cases the option of a removable diagonal.

## OPTIONS

### HARNESS BAR

All ROBs, can be supplied with an integral or bolt on additional harness bar, which will not interfere with the operation of the hood on soft top cars. Many owners, whether using their car on the road or the track, will find the use of a harness both comfortable and reassuring. If you have chosen to fit a ROB it is generally considered that in the unfortunate event of the car rolling over it is preferable to be firmly strapped in. A full harness will achieve this with much greater effect than a lap and diagonal arrangement.

Roll over bars with a harness bar are suffixed HB. Where an additional bolt on bar is available this is shown separately.

### DIAGONAL AND REMOVABLE DIAGONAL

Our competition range has diagonal cross bracing for extra rigidity. These bars are handed so that the strongest point is above the drivers head, i.e. RHD ROBs have a diagonal running from top right to bottom left. There is also the option of the diagonal being removable, giving you the best of both worlds: the convenience of a non obstructed rear view and better use of the rear shelf, for general road use and the safety of a diagonally braced ROB for competition.

Competition bars are suffixed with an L for LHD and R for RHD.

For Pricing and to purchase online please visit [www.revingtontr.com](http://www.revingtontr.com)

### TECHNICAL INFORMATION

All our ROB $\phi$  and Cages are made from CFS3BK cold drawn seamless carbon steel FIA spec tube, this material does not require annealing after welding. The tube dimensions are 1 ½" O/D diameter x 12 gauge (38.1mm x 2.64mm wall thickness). As the tube specification and design meets the minimum requirements of the FIA to their published drawings, there is no need for FIA approval of either ROB $\phi$  or Cages. However it is still up to the customer to ensure the bar design is appropriate to the sporting regulations of their chosen competition.

**Note:** *Chrome molybdenum 41-30 tubing is very hard and brittle and when welded creates hard spots and can crack, this material needs annealing after welding, therefore making it unnecessarily expensive, likewise T45 material is unnecessarily expensive. However if customers have an overwhelming desire to have bars made out of these alternative materials, this can be arranged at additional cost.*

### FAQS

#### Q1. Will I still be able to erect the hood sticks on my soft top car with the ROB fitted?

A1. Yes! All our ROB $\phi$ s, where specifically intended for soft top cars, will allow for the erection of the hood sticks without any modification

#### Q2. Will I be able to fit the TR2-3B Roll Over Bars with a hard top?

A2. Yes. We have tested the installation with a steel works hard top and with the hard top on Neil $\phi$  TR2 there was about 5mm clearance between the bar and the under-face of the steel hard top.

#### Q3. Do I need an FIA certificate if I intend to use the ROB or Cage in competition?

A3. No. All our ROB $\phi$ s and cages comply with FIA rules on construction and material. As the design and materials used conform to FIA drawings (and the MSA in the UK) no certification is required.

#### Q4. Will the bar or cage fit straight into my car?

A4. No, this would be highly unlikely, particularly on older cars such as the TR2. These early cars were virtually hand built and of course any car which has been rebuilt is likely to be a different shape to original. All ROB $\phi$ s are supplied with fitting instructions detailing methods that can be employed to encourage your car and your new ROB or cage to fit together.

#### Q5. Are fitting instructions included?

A5. Yes fitting instructions are included where necessary. This in particular refers to full cages, however simple rear hoop ROB $\phi$ s do not require fitting instructions. If help is required Revington TR are always here to help.

#### Q6. Is the ROB supplied with a fitting template?

A6. No fitting template is required, the bar will only fit in one place

TR2-3B ROBs RTR9047 Series							
Part No	Bar Type	Harness Bar	Fixed Diagonal	Removable Diagonal	Front Hoop & Removable Side Bars	LHD or RHD	Notes
RTR9047-1	Road					N/A	
RTR9047-1HB	Road	✓				N/A	
RTR9047-2R	Competition		✓			RHD	
RTR9047-2L	Competition		✓			LHD	
RTR9047-2HBR	Competition	✓	✓			RHD	
RTR9047-2HBL	Competition	✓	✓			LHD	
RTR9047-3R	Competition			✓		RHD	
RTR9047-3L	Competition			✓		LHD	
RTR9047-3HBR	Competition	✓		✓		RHD	
RTR9047-3HBL	Competition	✓		✓		LHD	
TR2-3B Cages RTR9091 and RTR9128 Series							
Part No	Bar Type	Harness Bar	Fixed Diagonal	Removable Diagonal	Front Hoop & Removable Side Bars	LHD or RHD	Notes
RTR9091R	Full Cage	✓	✓		✓	RHD	Front Hoop below the dash
RTR9091L	Full Cage	✓	✓		✓	LHD	Front Hoop below the dash
RTR9128R	Full Cage	✓	✓		✓	RHD	Maximum Protection with a full windscreen height front hoop (not below the dash)
RTR9128L	Full Cage	✓	✓		✓	LHD	Maximum Protection with a full windscreen height front hoop (not below the dash)
TR4-6 Soft Tops ROBs RTR9053 Series							
Part No	Bar Type	Harness Bar	Fixed Diagonal	Removable Diagonal	Front Hoop & Removable Side Bars	LHD or RHD	Notes
RTR9053-1	Road					N/A	
RTR9053-1HB	Road	✓				N/A	

### TR4-6 Soft Tops ROB's RTR9053 Series

Part No	Bar Type	Harness Bar	Fixed Diagonal	Removable Diagonal	Front Hoop & Removable Side Bars	LHD or RHD	Notes
RTR9053-2R	Competition		✓			RHD	
RTR9053-2L	Competition		✓			LHD	
RTR9053-2HBR	Competition	✓	✓			RHD	
RTR9053-2HBL	Competition	✓	✓			LHD	
RTR9053-3R	Competition			✓		RHD	
RTR9053-3L	Competition			✓		LHD	
RTR9053-3HBR	Competition	✓		✓		RHD	
RTR9053-3HBL	Competition	✓		✓		LHD	

### TR4-5 Hard Tops ROB's RTR9148 Series

Revington TR has produced an ingenious [backlight and Surrey or hardtop arrangement with an integral roll over](#) bar suitable for TR4, 4A, 5 and 250. This arrangement has been successfully fitted to many TR6's as well. [See BODY section on our website for details of the full kit](#)

These ROB's have been cleverly designed with sliding feet to accommodate different shapes and sizes of car; this will allow the main hoop of the ROB to fit neatly up inside the 'top hat' section of the backlight frame. Once the correct height has been established the feet are bolted firmly in place. This is a very tidy solution, which results in the rearward vision not being impaired. Detailed below are the bars that form part of this arrangement.

Whilst intended for use with our fibreglass backlight frame, the basic ROB's can be bought separately so they can be fitted under the original aluminium backlight frame.

Unlike our fibreglass backlight frame for which these ROB's were designed, the original aluminium version has two bosses cast into the under face through which the hard top centre panel or surrey top would be attached. As the ROB will sit directly below these access holes the main hoop incorporates two hollow ferrules to enable the hard top panel or surrey top to be fastened through both the ROB and the backlight frame. Longer bolts are required to fit the hard top centre panel or surrey top.

**HARNESS BAR.** As the back stay feet are bolted onto the main assembly, a welded on harness bar is impractical. To overcome this we have developed a separate bolt on harness bar part number **RTR4148HB** which should be ordered separately.

Part No	Bar Type	Harness Bar	Fixed Diagonal	Removable Diagonal	Front Hoop & Removable Side Bars	LHD or RHD	Notes
RTR9148-1AK	Road					N/A	TR4 only
RTR9148-1BK	Road					N/A	TR4A, 250, 5, 6
RTR9148-2ARK	Competition		✓			RHD	TR4 only
RTR9148-2BRK	Competition		✓			RHD	TR4A, 250, 5, 6
RTR9148-2ALK	Competition		✓			LHD	TR4 only

### TR4-5 Hard Tops ROB's RTR9148 Series

Part No	Bar Type	Harness Bar	Fixed Diagonal	Removable Diagonal	Front Hoop & Removable Side Bars	LHD or RHD	Notes
RTR9148-2BLK	Competition		✓			LHD	TR4A, 250, 5, 6
RTR9148-3ARK	Competition			✓		RHD	TR4 only
RTR9148-3BRK	Competition			✓		RHD	TR4A, 250, 5, 6
RTR9148-3ALK	Competition			✓		LHD	TR4 only
RTR9148-3BLK	Competition			✓		LHD	TR4A, 250, 5, 6
RTR9148HB	Harness Bar	✓					Universal Harness bar

### TR4-6 Hard Tops Full Cages RTR9177 Series

Please note for TR6: This arrangement will only fit open top

Part No	Bar Type	Harness Bar	Fixed Diagonal	Removable Diagonal	Front Hoop & Removable Side Bars	LHD or RHD	Notes
RTR9177-1R	Full Cage	✓	✓		✓	RHD	Dash needs to be cut to fit or short dash used
RTR9177-1L	Full Cage	✓	✓		✓	LHD	Dash needs to be cut to fit or short dash used

### TR7-8 Soft Top ROB's RTR9061 Series

Part No	Bar Type	Harness Bar	Fixed Diagonal	Removable Diagonal	Front Hoop & Removable Side Bars	LHD or RHD	Notes
RTR9061-1	Road					N/A	
RTR9061-1HB	Road	✓				N/A	
RTR9061-2R	Competition		✓			RHD	
RTR9061-2L	Competition		✓			LHD	
RTR9061-2HBR	Competition	✓	✓			RHD	
RTR9061-2HBL	Competition	✓	✓			LHD	
RTR9061-3R	Competition			✓		RHD	
RTR9061-3L	Competition			✓		LHD	
RTR9061-3HBR	Competition	✓		✓		RHD	
RTR9061-3HBL	Competition	✓		✓		LHD	

### TR7-8 Coupe ROBs RTR9138 Series

Part No	Bar Type	Harness Bar	Fixed Diagonal	Removable Diagonal	Front Hoop & Removable Side Bars	LHD or RHD	Notes
RTR9138-1	Road					N/A	
RTR9138-1HB	Road	✓				N/A	
RTR9138-2R	Competition		✓			RHD	
RTR9138-2L	Competition		✓			LHD	
RTR9138-2HBR	Competition	✓	✓			RHD	
RTR9138-2HBL	Competition	✓	✓			LHD	
RTR9138-3R	Competition			✓		RHD	
RTR9138-3LK	Competition			✓		LHD	
RTR9138-3HBR	Competition	✓		✓		RHD	
RTR9138-3HBL	Competition	✓		✓		LHD	

### TR7-8 Coupe Full Cages RTR9139 Series

Part No	Bar Type	Harness Bar	Fixed Diagonal	Removable Diagonal	Front Hoop & Removable Side Bars	LHD or RHD	Notes
RTR9139R	Full Cage	✓	✓		✓	RHD	Dash needs to be cut to fit
RTR9139L	Full Cage	✓	✓		✓	LHD	Dash needs to be cut to fit